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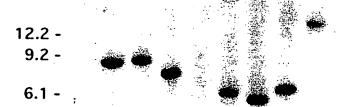


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FIG. 1B



to the transfer of the first of the contract o 1 TTAAGGTAGGAAGGATTTCAGGCTCTATTTACATAATTGTTCTTTCCTTTTCACACAGAA 60 61 TCCCTTTTTAGAAGTCAAGGTGACAGACACCCAAGAGGTCCCGGAGAGACTTTGGGCT 120 PFLEVKVTDTPKRSRDFGL 121 TGACTGCGATGAGCACTCCACGGAATCCCGGTGCTGCCGCTACCCCCTCACGGTCGATTT 180 D C D E H S T E S R C C R Y P L T V D F 181 TGAAGCCTTTGGATGGGACTGGATTATCGCACCCAAAAGATATAAGGCCAATTACTGCTC 240 EAFGWDWIIAPKRYKANYCS 241 AGGAGAGTGTGAATTTGTGTTTTTACAAAAATATCCGCATACTCATCTTGTGCACCAAGC 300 G E C E F V F L Q K Y P H T H L V H Q A 301 AAACCCCAGAGGCTCAGCAGGCCCTTGCTGCACTCCGACAAAAATGTCTCCCATTAATAT 360 N P R G S A G P C C T P T K M S P I N M 361 GCTATATTTTAATGGCAAAGAACAAATAATATATGGGAAAATTCCAGCCATGGTAGTAGA 420 LYFNGKEQIIYGKIPAMVVD 421 CCGCTGTGGGTGCTCATGAGCTTTGCATTAGGTTAGAAACTTCCCAAGTCATGGAAGGTC 480

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A Committee Committee

R C G C S \*

541 GGCCGCCACC 550

#### FIG. 2A

481 TTCCCCTCAATTTCGAAACTGTGAATTCCTGCAGCCCGGGGGATCCACTAGTTCTAGAGC 540

1 CAAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGAT 60 K R S R R D F G L D C D E H S T E S R C 61 GCTGTCGTTACCCTCTAACTGTGGATTTTGAAGCTTTTGGATGGGATTGGATTATCGCTC 120  $\texttt{C} \quad \texttt{R} \quad \texttt{Y} \quad \texttt{P} \quad \texttt{L} \quad \texttt{T} \quad \texttt{V} \quad \texttt{D} \quad \texttt{F} \quad \texttt{E} \quad \texttt{A} \quad \texttt{F} \quad \texttt{G} \quad \texttt{W}$ D 121 CTAAAAGATATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGTATTTTTACAAAAAT 180 K R Y K A N Y C S G E C E F V LOKY F 181 ATCCTCATACTCATCTGGTACACCAAGCAAACCCCAGAGGTTCAGCAGGCCCTTGCTGTA 240 P H T H L V H Q A N P R G S A G P C C T 241 CTCCCACAAAGATGTCTCCAATTAATATGCTATATTTTAATGGCAAAGAACAAATAATAT 300 PTKMSPINMLYFNGKEQIIY 301 ATGGGAAAATTCCAGCGATGGTAGTA 326 GKIPAMVV

FIG. 2B



GTC AAA GTA ACA GAC ACA CCC AAG AGG TCC V K V T D T P K R S GAA E T L ĒΨ ပ္ပ CTG AAT 999 GAT D E A

ပ္ပ TAC Y ეე <sub>ო</sub> TGT C ည္သင 06G R 755 S GAA E TCC ACG ( EACAC GAA E GAT D <u>Т</u>бТ GAC D F ეც ე Eω o gy A 46.4

HEATTEN ASSESSED AT THE ASSESSED AS A STATE OF T AAG K AGA TAT ¥× GCA CCC , ATT ATT I GAC TGG / D W 766 ₩ 66A G Eu . 229 V GAA E F 4 GAT D GTC > ACG T CTC \_\_

CAT H ACT. E E TTA CAA AAA TAT C L Q K Y GTG TTC V F Ēμ GAA E GAG TGT ( E C 66A G TCT S ည် AAT TAC ' GCT A

AAA X ¥Ç ► S a TGC ACG ( ည် CCT P GCA GGC A G 75G S ည္ဟ ဗ CCC AGA ( N AC GCA A <del>8</del> 0 H CAC 6TG ^ E ~

999 GGC AAA GAA CAA ATA ATA TAT G K E Q I I Y AAT N Eu CTA TAT ' ATG M ATT AAT / ပ္ပ 77 S

S TTG CAT TAG CTT TAA AAT TTG TCG TGA GCT 1 S ည် . 999 चि ० 99 8 GTA GAC ( V D GTA V ATG 900 A

TAG <u>9</u> TTT ATG TAC CAC AGG TTT CGA AAC TGT GAA TCC CCT CGA GGA AGG TCT ST AAT

RAT GDF-8 FIG.



 To Date weap sometime was a sometime and additional account. May more than ACG GAA **TGT** GGG GGGA AAG AAG AAG AAC TGA CAT  $\Sigma$ TGT AA LT AA AA LT AB AB LT AB BB C T AB BB C BB C B B C B BB C B B C ₩ ပ္ပ 9 TAT ည္ညပ AT FT AA AT CT TT CT TT CT AA AT C AA AT C A AT C A

amore, or But to the terminal of the second of the second



## zebrafish.nucleotide [Strand]

CGGAGGAGGC GACCACCGTC TYCTTACAGA TATCTCGGCT GATGCCCGTT AAGGACGGAG GAAGACACCG TTCTCCTTCA GTCCGAAGAT CCAAGCGAAC CGGATCGTAA GAGCGCAGCT CTGGGTTCAT CTGAACCGG GACCATCATG ACCATGGCCA CAGAACCTGA CCCCATTGTT CAAGTAGATC GGAAACCGAA GTGTTGCTTT TAACGGCGCA CCAGCAGCCT TCCACAGCCA CGGAGGAAAG CGAGCTGTGT TCCACATGTG AGTTCAGACA ACACAGCAAG CTGATGAGAC TGCATGCCAT CAAGTCCCAA ATTCTTAGCA AACTCCGACT CAAGCAGGCT ATGCATTITA CACAGGITIT AATTICTCIA AGIGIATIAA ITGCAIGIGG ICCAGIGGGI IATGGAGAIA AGTACGATGT TTTAGGAGAT GACAGTAAGG ATGGAGCTGT GGAAGAGGAC GATGAACATG CCACCACAGA CCAAACATCA GCCGGGACGT GGTCAAGCAG CTGTTACCCA AAGCACCGCC TTTGCAACAA CTTCTGGATC Ω отругата S T C B F R LRLKO S R D V V K Q L L P K A P P L Q Q L L W V H L R Ö QVDRKPK Ö Ö > Ω × × R A Q L Q E L ъ М SQILS ပ K × н L P I V ഗ R I V × S V L STATEE S LMRLHAI K H TMATEPD N V O S L ы 0 н [I4 SPKI Q Q J > ۲ ø H I T A H X H ø × S Fi ப S ы 491 421 351 281 211 141 7

## FIG. 2E-1



CDY MYLQKY PHTHLYN TACTITAACG GCAAAGAGCA GAICAICIAC GGCAAGAICC CIICGAIGGI AGIAGACCGC IGIGGIGCI ACGACTIGGC CGTCACTICA ACCGAGACTG GGGAGGATGG ACTGCTCCCC TITATGGAGG TGAAAATATC AGAGGGCCCA AAACGAATCC GGAGGGACTC CGGACTGGAC TGCGATGAGA ATTCCTCAGA GTCTCGCTGC CAAGGCCAGT CCGAGAGGAA CGGCTGGGCC CTGCTGCACT CCCACCAAGA TGTCTCCCAT CAAGATGCTT TGCAGGTACC CTCTCACTGT GGACTTCGAG GACTTTGGCT GGGACTGGAT TATTGCTCCA AAACGCTATA AGGCGAATTA CTGTTCAGGA GAATGCGACT ACATGTACCT GCAGAAGTAT CCCCACACCC ATCTGGTGAA AATACGATCC CTGAAAATCG ACGTGAACGC AGGAGTCACG TCTTGGCAGA GTATAGACGT AAAGCAGGTG CTCACGGTGT GGTTAAAACA ACCGGAGACC AACCGAGGCA TCGAGATTAA CGCATATGAC GCGAAGGGAA SESRC K CRYP LTV DFE DFGW DWI'IAP KR A A M E V > Ω A Y D ഗ KRIR RDS GLD CDEN S н Ŀ PTKM > > တ EH LLP ø 3 ഗ ß NRGI Q, S S S о О Э н H > × O ပ T A G P T. 면 r I z z 回 ۵ ۵ ы E ø ა დ T V W L K Q ഗ Р В В 凹 H n R × U NDLAV O KANY Ø z G CATGA 1121 1051 911 981 561 701 771 841 631

FIG. 2E-2



# salmon GDF-8.nucleotide1 [Strand]

GGCAGCCGGA GACGAATTGG GGGATCGAGA TTAATGCGTT CGACTCGAAG GGAAATGATC TGGCCGTTAC CTCAGCAGAA GCGGGAGAAG GACTGCAACC CTTCATGGAG GTGACGATTT CAGAGGGCCC GAAGGGCTCC ACCGCAGGGC CCTGCTGCAC CCCCACCAAG ATGTCCCCCCA TCAACATGCT CTACTTCAAC CGCAAAGAGC G N D L ASVET TGAGTGTGAG TACATGCACC TGCAGAAGTA CCCCCACACC CACCTGGTGA ACAAGGCTAA CCTTGGCGGC AGGAGAGACT CGGGCCTGGA CTGTGACGAG AACTCCCCCG AGTCCCGCTG TTGCCGCTAC CCCCTCACGG TAGACITIGA AGACITIGGC 1GGGACIGGA ITATIGCCCC CAAGCGCIAC AAGGCCAACT ACIGCICIG E YMHL QKYPHT HLVNKANPRG R Y K A N Y C S አ TAGPCATCATCTA CGCCAAGATC CCCTCCATGG TGGTGGACCG TTGCGGATGC TCGTGA o U AGATCATCTA CGCCAAGATC CCCTCCATGG TGGTGGACCG TTGCGGATGC TCGTGA AGEG LQP FME VTIS E S G L D C D E N S P E S R C ပ S Ω × ပ ĸ IIAP I N A F Ω > > Σ E C I R C W S 3 Z × D ပ ۲ V D'F E VIIV ပ 421 351 211 281 141 17

## FIG. 2F



# salmon GDF8.nucleotide2 [Strand]

FED FGWD WII APKRYKA NYC CTCTGGTGAG TGCGAGTACA TGCACCTGCA GAAGTACCCC CACACCCACC TGGTGAACAA GGCTAACCCT CGCGGCACCG CGGGCCCTG CTGCACCCCC ACCAAGATGT CCCCCATCAA CATGCTCTAC TTCAACCGGCA TCACGGTGGA CTTTGAAGAC TTTGGCTGGG ACTGGATTAT TGCCCCCAAG CGCTACAAGG CCAACTACTG SCITACCICA ACTGAAGCCG GAGAAGGACT GCAACCCITC ATGGAGGTGA AGATITCGGA GGGCCCGAAG CECTCCAGGA GAGATYCGGG CCTGGACTGT GATGAGAACT CCCCCGAGTC CCGCTGCTGC CGGTACCCCC R. AAGAGCAGAT CATCTACGGC AAGATCCCCT CCATGGTGGT GGACCGCTGC GGCTGCTCGT GA RSRR DSG LDC DENS PES RCC CEYMHLQ KYP HTHL VNK H × SPIN > = Σ QPF R G T A G P C C T P T K M Σ E G L S T E A G LTVD വ ഗ ø Ш 351 141 211 281 11

## FIG. 2G



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BUT BY A MARK WAS PROMISED AND A STATE OF A	TO THE MENT OF THE SECOND	FIG. 3A
SRRDFGLDCDEHSTESRCRYPLTVDF-EAFGWD-WIIAPKRYKANYCSGEGEFVFLQKYP-RPRDAEPVLGGGPGCRARRLYVSF-REVGWHRWVIAPRGFLANYCQGQCALPVALSGSGPPREKRQAKHKQRKRLKSSCKRHPLYVDF-SDVGWNDWIVAPPGYHAFYCHGEOPFPLADHLNS-KRSPKHHSQRARKNKNCRRHSLYVDF-SDVGWNDWIVAPPGYQAFYCHGDOPFPLADHLNS-SRGSGSSDYNGSELKTACKKHELYVSF-QDLGWQDWIIAPEGYAAYYCGGCAFPLNAHMNA-LRMANVAENSSDQRQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCGGCAFPLNSHMNA-SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCGGCAFPLNSHMNA-SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCGGCAFPLNAHMNA-SRMSSVGDYNTSEQKQACKKHELYVSF-RDLGWQDWIIAPEGYAAYYCGGCAFPLNAHMNA-BQTKKARRKQWIEPRNCARRYLKVDF-ADIGWSEWIISPRSTIFHYCHGGCGLHIPPNLSLPV-ALRLLQRPPEEPAAHANCHRVALNISF-QELGWERWIVYPPSFIFHYCHGGGCLHIPPNLSLPV-HRRRRGLECDGKV-NICCKRQFFVSF-KDIGWNDWIIAPFGYYGNYCGGSCPRIAGISGSSL-HRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWK-WIHEPKGYNANFCLGFCPYIWSLD-KKRALDAAYCFRNUQDNCCLRPLYIDFRKDLGWK-WIHEPKGYNANFCAGACPYLWSSD-KKRALDAAYCFRNUEENQCVRPLYIDFRRDLGWK-WIHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENQCVRPLYIDFRRDLGWK-WHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENQCVRPLYIDFRRDLGWK-WHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENQCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENQCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENGCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLWSSD-KKRALDTNYCFRNLEENGCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLRSAD-KKRALDTNYCFRNLEENGCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLNYGAGACPYLRSAD-KKRALDTNYCFRNLEENGCVRPLYIDFRQDLGWK-WHEPKGYNANFCAGACPYLNYGAGACPYLRSAD-CAGACPYLRSAC-CAGACPYLRSAD-CAGACPYLRSAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	-HTHLVHQANPRG——SAGPCGT—PTKMSPINMLYF-NGKEQIIYGKIPAMVVDRGGGS  ALNHAVLRALMHA—AAPGAADLPCCV—PARLSPISVLFF-DNSDNVVLRQYEDMVVDECGGR -TNHAIVQTLVNS—VNSKIPKACCV—PTELSAISMLYL-DENEKVVLKNYQDMVVEGCGGR -TNHAIVQTLVNS—VNSSIPKACCV—PTELSAISMLYL-DEYDKVVLKNYQEMVVEGCGGR -TNHAIVQTLVHL—MNPEYVPKPCCA—PTKLNAISVLYF-DDNSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -TNHAIVQTLVHL—MFPDHVPKPCCA—PTKLNAISVLYF-DDSSNVILKKYRNMVVRACGCH -GNHVVLLLKMQA—RGAALARPPCCV—PTAYAGKLLISLSEER—ISAHHVPNMVATECGCR -PGAPPTPAQPYS——LLPGAQPCCAALPGTMRPLHVRTTSDGGYSFKYETVPNLTTCHCACI -SFHSTVINHYRMRGHSPFANLKSCCV—PTKLRPMSMLYY-DDGQNIIKKDIQNMIVEECGGS -SFHTAVVNQYRMRGLNPGT-VNSCCI—PTKLSTMSMLYF-DDEYNIVKRDVPNMIVEECGCA	NQ—HNPGASAAPCCV— NT—INPEASASPCCV— NT—LNPEASASPCCV—
GDF-8 GDF-1 BMP-2 BMP-4 Vgr-1 CP-1 BMP-3 BMP-3 MIS InhibinbβA InhibinbβA InhibinbβA InhibinbβA InhibinbβA	GDF-8 GDF-1 BMP-2 BMP-4 Vgr-1 OP-1 BMP-5 BMP-3 MIS Inhibin $\beta$ A Inhibin $\beta$ B	$TGF-\beta 1$ $TGF-\beta 2$ $TGF-\beta 3$



80 <u>MOKLQLCVYIYLFMLIVAGPVDLNEMSEQKENVEKEGLCNACIWRQNTKSSRIEAIKIQILSKLRLETAPNISKDVIRQ</u> MMQKLQMYVYIYLFMLIJAJAGPVDLNEJGSEKEENVEKEGLCNACJAMRQNTJRYSRIEAIKIQILSKLRLETAPNISKDAJIRQ

rat human murine chicken

rat

chicken

human murine

LVVKAQLWIY 240 <u>LLPKAPPLRELIDQYDVQRDDSSDGSLEDDDYHATTETIITMPTESDFLMQVDGKPKCCFFKFSSKIQYNKVVKAQLWIY</u> llprapplrelidoydvorddssdgsledddyhattetiitmptesdflmoadgckpkccffkfsskigynkvvkaqlwiy

lrpvkmpttvevoilrlikpmkdgtrytgirslkldmspgtgiwosidvktvlonwlkopesnigieikaldenghdlav <u>LRQVQKPTTVFVQILRLIKPMKDGTRYTGIJGSLKLDMNPGTGIWQSIDVKTVLQNWLKQPESNLGİEIKAFPEFTGRADLAV</u> <u>LRPVETPTTVFVQILRLIKPMKDGTRYTGIRSLKLDMNPGTGIWQSIDVKTVLQNWLKQPESNLGIEFKALDENGHDLAV</u> rat human murine chicken

EDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQ <u>TFPGPGEDGLNPFLEVRVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLO</u> TFPGPGEDGLNPFLEVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGECEFVFLQ 241 rat human murine chicken

KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS **KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS** rat murine human

**KYPHTHLVHQANPRGSAGPCCTPTKMSPINMLYFNGKEQIIYGKIPAMVVDRCGCS** chicken



murine	murine	murine	murine	murine
zebrafish	zebrafish	zebrafish	zebrafish	zebrafish
salmon1	salmoni	salmoni	salmon1	salmon1
salmon2	salmon2	salmon2	salmon2	salmon2
10 1 M M Q K L Q M Y V Y I Y L F M L I A A G P V D L N E G S E R 1 M H F T Q V L I S L S V L I A C G P V G Y G D I T A H 1	31 E E N V E K E G L C N A C A W R Q N T R Y S R I E A I 28 Q Q P S T A T E E S E L C S T C E F R Q H S K L M R L H A I 1	58 K I Q I L S K L R L E T A P N I S K D A I R Q L L P R A P P P S K S Q I L S K L R L K Q A P N I S R D V V K Q L L P K A P P I S K S Q I L S K L R L K Q A P N I S R D V V K Q L L P K A P P I S K S Q I L S K L R L K Q A P N I S R D V V K Q L L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P I S K S Q I L P K A P P P I S K S Q I L P K A P P P I S K S Q I L P K A P P P P I S K S Q I L P R A P P P P P P P P P P P P P P P P P	140 186 L R E L I D Q Y D V Q R D D S S D G S L E D D D Y H A T T E 88 L Q Q L L D Q Y D V L G D D S K D G A V E E D D E H A T T E 1	130 118 T I T M P T E S D F L M Q A D G K P K C C F F K F S S K I 118 T I M T M A T E P D P I V Q V D R K P K C C F F S F S P K I 1

FIG. 3C



148 Q Y N K V V K A Q L W V T L R P V K T P T T V F V Q I L R L Sebrafish  1		Siman, kalastara 1977	i per unisaMili e dadi z Pilitari	Robert Market (1997) Victoria	
160		•	murine zebrafis salmon1- salmon2		_
	160 48 Q Y N K V V K A Q L W I Y L R P V K T P T T V F V Q I L R 1	190 200 2 2 I K P M K D G T R Y T G I R S L K L D M S P G T G I W Q S 1	220 08 D V K T V L Q N W L K Q P E S N L G I E I K A L D E N G H  06 D V K Q V L T V W L K Q P E T N R G I E I N A Y D A K G N  1 Q P E T N W G I E I N A F D S K G N  1	250 38 LAVTFPGPGEDGLNPFLLEVKVTDTPKRSR36 LAVTSTETGEDGLLPFMEVKISEGPKRIR20 LAVTSAEAGE-GLQPFMEVTISEGPKRSR1 - VTSTEAGE-GLQPFMEVKISEGPKRSR1 - VTSTEAGE-GLQPFMEVKISEGPKRSR	290 68 DFGLDCDEHSTESRCCRYPLTVDFEAFGW 66 DSGLDCDENSPESRCCRYPLTVDFEDFGW 49 DSGLDCDENSPESRCCRYPLTVDFEDFGW 28 DSGLDCDENSPESRCCRYPLTVDFEDFGW

## FIG. 3D



014400 (No. 14)	gwalfitha ya sa	s com metalization
murine zebrafish salmon1 salmon2	murine zebrafish salmonl salmon2	murine zebrafish salmon1
330 Y L Q K Y P H T H L H L Q K Y P H T H L H L Q K Y P H T H L H L Q K Y P H T H L	360 PINMLYFNGK PINMLYFNGK PINMLYFNRK PINMLYFNRK	
320 Y C S G B C B F V Y C S G B C D Y M Y C S G B C B Y M Y C S G B C B Y M	350 PCCTPTKMS PCCTPTKMS PCCTPTKMS	V V D R C G C S V V D R C G C S V V D R C G C S
310 8 W I I A P K R Y K A N 6 W I I A P K R Y K A N 9 W I I A P K R Y K A N 8 W I I A P K R Y K A N	340 8 VHQANPRGSAG 6 VNKASPRGTAG 9 VNKANPRGTAG 8 VNKANPRGTAG	370 8 E Q I I Y G K I P A M 9 E Q I I Y G K I P S M 9 E Q I I Y G K I P S M
296 296 75	328 326 109	356 356 135

FIG. 3E

Decoration 'Decoration #1': The outlined residues that match the Concensus exactly.

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TGF−β3	33	ಜ	32	37			37		36	35	83	82	ક્ષ	32	22	24	36	37	. 28	82	8
TGF- <b>β</b> 2	32	28	31	34	36	35	37	25	34	33	37	38	35	32	23	72	37	34	74 .	8	
TGF- <b>β</b> 1	33	26	36	33	35				35				34				4	35	100	. j :	
Inhibin <b>ß</b> B	35	25	4	37	33	36	45	2	42	42	<del>1</del>	42	37	37	52	52	63	100	1	1	1
Inhibin <b></b> BA	37	32	42	40	43	1	38	ಜ	42	4	44	43	43	36	24	56	90		ı	ì	ı
Inhibinα	23	2	25	24	27	56	97	27	22	22	22	24	24	53	<b>∞</b>	5	1	ı	1	1	ı
MIS	34	20	22	27	56	22	31	71	27	23	24	27	24	23	5	1	1	ı	ı	1	1
BMP-3	42	34	42	47	46	46	88	53	48	47	44	45	43	5	1	1	ı	ı	1	ı	1
BMP-5	46	55	22	52	54	52	45	3	61	23	16	88	9		ı	1	1	1	ı	1	ı
OP-1	47	52	S	51	53	53	42	ಜ	8	28	. 87	8		١.	1	ı	1	i	ı	ı	ı
Vgr-1	46	55	53	52	53	25	45	3	19	8	8	. ' .	. j :		ı	ı	ı	1	ı	ı	1
BMP-4	43	5	22	27	26	57	38	₹	92.	8	1	ı	ı		i	1	1	1	ı	1	ı
BMP-2	42	52	53	57	57	27	4	33	8		١.	1	1	ı	1	1	1	1	ı	ı	i
GDF-9	27	32	33	33	34	33	27	5	1	ı	١.	ı	ı	1	ı	1	1	1	ı	1	ı
GDF-8	35	2	4	37	38	37	5	ı	ı	ı	ı	1	ı	1	1	ı	ı	ı	ı	ı	1
GDF-7	48	48	46		8	<u>5</u>	۱	ı	ı	. 1	1	ı	ı	ı	1	ı	ı	ı	1	1	ı
GDF-6	44	2	49	. 98	.6		۱,	ı	1	ı	1	1	ı	ı	i	1	ı	ı	ı	ı	1
GDF-5	46	47	49	.8	: i.	1	۱ ا	i	ı	1	i	ı	1	t	ı	ı	ı	ı	J	ı	1
GDF-3		-	5	1	1	ı	1	1	1	1	ı	ť	ŧ	ı	-1	ι	ı	1	ı	ı	ı
GDF-2	33	5	ŀ	ı	1	ı	1	1	·	ı	1	1	ı	ı	ı	ı	1	1	ı	ı	ı
GDF-1													ı		ı	i		ı	ı	ı	1
	GDF-1	CDF-2	CDF-3	COF-5	CDF-6	CDF-7	CDF-8	CDF-9	BMP-2	BMP-4	Vgr-1	0P-1	BMP-5	BMP-3	MIS	Inhibina	InhibinβA	Inhibin BB	TGG-#1	TGF-β2	TGF−β3

FIG. 4



1 GTCTCTCGGACGGTACATGCACTAATATTTCACTTGGCATTACTCAAAAGCAAAAGAAG 60 61 AAATAAGAACAAGGGAAAAAAAAAGATTGTGCTGATTTTTAAAATGATGCAAAAACTGCA 120 PROMITED BY MAN TO BE TAKEN BY M. M. Q. K. L. Q. 121 AATGTATGTTTATATTTACCTGTTCATGCTGATTGCTGCTGGCCCAGTGGATCTAAATGA 180 M Y V Y I Y L (FAMBLECTIBANCA) G PAV D L N E 181 GGGCAGTGAGAGAAAAATGTGGAAAAAGAGGGGCTGTGTAATGCATGTGCGTGGAG 240 G S E R E E N V E OK E E G L C N A C A W R 241 ACAAAACACGAGGTACTCCAGAATAGAAGCCATAAAAATTCAAATĆCTCAGTAAGCTGCG 300 Q N T R Y S R I E A I K I Q I L S K L R 301 CCTGGAAACAGCTCCTAACATCAGCAAAGATGCTATAAGACAACTTCTGCCAAGAGCGCC 360 LETAPNIS KDAIRQLLPRAP 361 TCCACTCCGGGAACTGATCGATCAGTACGACGTCCAGAGGGATGACAGCAGTGATGGCTC 420 P L R E L I D Q Y D V Q R D D S S D G S 421 TTTGGAAGATGACGATTATCACGCTACCACGGAAACAATCATTACCATGCCTACAGAGTC 480 LEDDDYHATTETIITMPTES 481 TGACTTTCTAATGCAAGCGGATGGCAAGCCCAAATGTTGCTTTTTTAAATTTAGCTCTAA 540 D F L M Q A D G K P K C C F F K F S S K 541 AATACAGTACAACAAAGTAGTAAAAGCCCAACTGTGGATATATCTCAGACCCGTCAAGAC 600 IQYNKVVKAQLWIYLRPVKT 601 TCCTACAACAGTGTTTGTGCAAATCCTGAGACTCATCAAACCCATGAAAGACGGTACAAG 660 PTTVFVQILRLIKPMKDGTR 661 GTATACTGGAATCCGATCTCTGAAACTTGACATGAGCCCAGGCACTGGTATTTGGCAGAG 720 T G I R S L K L D M S P G T G I W Q S 721 TATTGATGTGAAGACAGTGTTGCAAAATTGGCTCAAACAGCCTGAATCCAACTTAGGCAT 780 D V K T V L Q N W L K Q P E S N L G I 781 TGAAATCAAAGCTTTGGATGAGAATGGCCATGATCTTGCTGTAACCTTCCCAGGACCAGG 840 EIKALDENGHDLAVTFPGPG EDGLNPFLEVKVTDTPKRSR 901 GAGAGACTTTGGGCTTGACTGCGATGAGCACTCCACGGAATCCCGGTGCTGCCGCTACCC 960 RDFGLDCDEHSTESRCCRYP 961 CCTCACGGTCGATTTTGAAGCCTTTGGATGGGACTGGATTATCGCACCCAAAAGATATAA 1020 LTVDFEAFGWDWIIAPKRYK 1021 GGCCAATTACTGCTCAGGAGAGTGTGAATTTGTGTTTTTACAAAAATATCCGCATACTCA 1080 ANYCSGECEFVFLQKYPHTH 1081 TCTTGTGCACCAAGCAAACCCCAGAGGCTCAGCAGGCCCTTGCTGCACTCCGACAAAAT 1140 LVHQANPRGSAGPCCTPTKM 1141 GTCTCCCATTAATATGCTATATTTTAATGGCAAAGAACAAATAATATATGGGAAAATTCC 1200 S P I N M L Y F N G K E Q I I Y G K I P 1201 AGCCATGGTAGTAGACCGCTGTGGGTGCTCATGAGCTTTGCATTAGGTTAGAAACTTCCC 1260 A M V V D R C G C S \*

FIG. 5A



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1261 AAGTCATGGAAGGTCTTCCCCTCAATTTCGAAACTGTGAATTCAAGCACCACAGGCTGTA 1320
1321 GGCCTTGAGTATGCTCTAGTAACGTAAGCACAAGCTACAGTGTATGAACTAAAAGAGAGA 1380
1381 ATAGATGCAATGGTTGGCATTCAACCACCAAAATAAACCATACTATAGGATGTTGTATGA 1440
1441 TTTCCAGAGTTTTTGAAATAGATGGAGATCAAATTACATTTATGTCCATATATGTATATT 1500
1501 ACAACTACAATCTAGGCAAGGAAGTGAGAGCACATCTTGTGGTCTGCTGAGTTAGGAGGG 1560
1561 TATGATTAAAAGGTAAAGTCTTATTTCCTAACAGTTTCACTTAATATTTACAGAAGAATC 1620
1621 TATATGTAGCCTTTGTAAAGTGTAGGATTGTTATCATTTAAAAACATCATGTACACTTAT 1680
1681 ATTTGTATTGTATACTTGGTAAGATAAAATTCCACAAAGTAGGAATGGGGCCTCACATAC 1740
1741 ACATTGCCATTCCTATTATAATTGGACAATCCACCACGGTGCTAATGCAGTGCTGAATGG 1800
1861 GTGCATCTCCACACACACACACTAAGTGTTCAATGCATTTTCTTTAAGGAAAGAAGAAT
                                                               1920
1921 CTTTTTTCTAGAGGTCAACTTTCAGTCAACTCTAGCACAGCGGGAGTGACTGCTGCATC
1981 TTAAAAGGCAGCCAAACAGTATTCATTTTTAATCTAAATTTCAAAATCACTGTCTGCCT 2040
2041 TTATCACATGGCAATTTTGTGGTAAAATAATGGAAATGACTGGTTCTATCAATATTGTAT 2100
2101 AAAAGACTCTGAAACAATTACATTTATATATATGTATACAATATTGTTTTGTAAATAAG 2160
2161 TGTCTCCTTTTATATTTACTTTGGTATATTTTTACACTAATGAAATTTCAAATCATTAAA 2220
2221 GTACAAAGACATGTCATGTATCACAAAAAAGGTGACTGCTTCTATTTCAGAGTGAATTAG 2280
2281 CAGATTCAATAGTGGTCTTAAAACTCTGTATGTTAAGATTAGAAGGTTATATTACAATCA 2340
2341 ATTTATGTATTTTTACATTATCAACTTATGGTTTCATGGTGGCTGTATCTATGAATGTG 2400
2401 GCTCCCAGTCAAATTTCAATGCCCCACCATTTTAAAAATTACAAGCATTACTAAACATAC 2460
2461 CAACATGTATCTAAAGAAATACAAATATGGTATCTCAATAACAGCTACTTTTTTATTTTA 2520
2521 TAATTTGACAATGAATACATTTCTTTTATTTACTTCAGTTTTATAAATTGGAACTTTGTT 2580
2581 TATCAAATGTATTGTACTCATAGCTAAATGAAATTATTTCTTACATAAAAATGTGTAGAA 2640
2641 ACTATAAATTAAAGTGTTTTCACATTTTTGAAAGGC 2676
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FIG. 5B



GENERAL STATE OF THE STATE OF T

1	AAGAAAAGTÁAAAGGAAGAAACAAGAACAAGAAÁAAGATTATATTGATTTTAAAATCAT	60
61	M GCAAAACTGCAACTCTGTGTTTÄTÄŢŢŢĄĊĊŢĠŢŢŢĀŢĠŢŢĠĀŢŢĠŢŢĠŢŢĠĠŢĊĊĀĠŢ	120
	Q K L Q L C V Y I Y L F M L I V A G P V	120
121	GGATCTAAATGAGAACAGTGAGCAAAAAGAAAATGTGGAAAAAGAGGGGCTGTGTAATGC	100
	D L N E N S E Q K E N V E K E G L C N A	100
181	ATGTACTTGGAGACAAAACACTAAATCTTCAAGAATAGAAGCCATTAAGATACAAATCCT	240
		240
241	C T W R Q N T K S S R I E A I K I Q I L CAGTAAACTTCGTCTGGAAACAGCTCC <u>TAACATCAG</u> CAAAGATGTTATAAGACAACTTTT	200
		300
301	S $K$ $L$ $K$ $L$ $E$ $T$ $A$ $P$ $[N : 1 : S]$ $K$ $D$ $V$ $I$ $R$ $Q$ $L$ $L$ $ACCCAAAGCTCCTCCACTCCGGGAACTGATTGATCAGTATGATGTCCAGAGGGATGACAG$	
301	D	360
361	f P K A $f P$ $f P$ L R E L I D Q Y D V Q R D D S CAGCGATGGCTCTTTGGAAGATGACGATTATCACT	_
301	0 D 0 0	420
421		
721	GCCTACAGAGTCTGATTTCTAATGCAAGTGGATGGAAAACCCAAATGTTGCTTCTTTAA	480
401		
401	ATTTAGCTCTAAAATACAATACAATAAAGTAGTAAAGGCCCAACTATGGATATATTTGAG	540
E 1 1	F S S K I Q Y N K V V K A Q L W I Y L R	
241	ACCCGTCGAGACTCCTACAACAGTGTTTGTGCAAATCCTGAGACTCATCAAACCTATGAA	600
601	= + + & Z I I K I I K P M K	
901	AGACGGTACAAGGTATACTGGAATCCGATCTCTGAAACTTGACATGAACCCAGGCACTGG	660
	D G T R Y T G I R S L K L D M N P G T G	
661	TATTTGGCAGAGCATTGATGTGAAGACAGTGTTGCAAAATTGGCTCAAACAACCTGAATC	720
	IWQSIDVKTVLQNWLKQPES	
721	CAACTTAGGCATTGAAATAAAAGCTTTAGATGAGAATGGTCATGATCTTGCTGTAACCTT	780
	NLGIEIKALDENGHDLAVTF	
781	CCCAGGACCAGGAGAAGATGGGCTGAATCCGTTTTTAGAGGTCAAGGTAACAGACACCC	840
	P G P G E D G L N P F L E V K V T D T P	
841	AAAAAGATCCAGAAGGGATTTTGGTCTTGACTGTGATGAGCACTCAACAGAATCACGATG	900
	KRSRRDFGLDCDEHSTESRC	
901	CTGTCGTTACCCTCTAACTGTGGATTTTGAAGCTTTTGGATGGGATTGGATTATCGCTCC	960
	CRYPLTVDFEAFGWDWIIAP	
961	TAAAAGATATAAGGCCAATTACTGCTCTGGAGAGTGTGAATTTGTATTTTTACAAAAATA	1020
	KRYKANYCSGECEFVFLOKY	
1021	TCCTCATACTCATCTGGTACACCAAGCAAACCCCAGAGGTTCAGCAGGCCCTTGCTGTAC	1080
	PHTHLVHQANPRGSAGPCCT	
1081	TCCCACAAAGATGTCTCCAATTAATATGCTATATTTTAATGGCAAAGAACAAATAATATA	1140
	PTKMSPINMLYFNGKEOIIY	
1141	TGGGAAAATTCCAGCGATGGTAGTAGACCGCTGTGGGTGCTCATGAGATTTATATTAAGC	1200
	G K I P A M V V D R C G C S *	1200

FIG. 5C



Committee of the control of the cont

1201 GTTCATAACTTCCTAAAACATGGAAGGTTTTCCCCTCAACAATTTTGAAGCTGTGAAATT 1260 1261 AAGTACCACAGGCTATAGGCCTAGAGTATGCTACAGTCACTTAAGCATAAGCTACAGTAT 1320 1381 AAGAAAGTTTTATGATTTCCAGAGTTTTTGAGCTAGAAGGAGATCAAATTACATTTATGT 1440 1441 TCCTATATATACAACATCGGCGAGGAAATGAAAGCGATTCTCCTTGAGTTCTGATGAAT 1500 1501 TAAAGGAGTATGCTTTAAAGTCTATTTCTTTAAAGTTTTGTTTAAATATTTACAGAAAAAT 1560 1561 CCACATACAGTATTGGTAAAATGCAGGATTGTTATATACCATCATTCGAATCATCCTTAA 1620 1621 ACACTTGAATTTATATTGTATGGTAGTATACTTGGTAAGATAAAATTCCACAAAAATAGG 168C 1681 GATGGTGCAGCATATGCAATTTCCATTCCTATTATAATTGACACAGTACATTAACAATCC 1740 1741 ATGCCAACGGTGCTAATACGATAGGCTGAATGTCTGAGGCTACCAGGTTTATCACATAAA 1800 1801 AAACATTCAGTAAAATAGTAAGTTTCTCTTTTCTTCAGGTGCATTTTCCTACACCTCCAA 1860 1861 ATGAGGAATGGATTTTCTTTAATGTAAGAAGAATCATTTTTCTAGAGGTTGGCTTTCAAT 1920 1981 TATCAAAATGTCAAAATAACATACTTGGAGAAGTATGTAATTTTGTCTTTGGAAAATTAC 2040 2041 AACACTGCCTTTGCAACACTGCAGTTTTTATGGTAAAATAATAGAAATGATCGACTCTAT 2100 2101 CAATATTGTATAAAAAGACTGAAACAATGCATTTATATAATATGTATACAATATTGTTTT 2160 2161 GTAAATAAGTGTCTCCTTTTTTATTTACTTTGGTATATTTTTTACACTAAGGACATTTCAA 2220 2221 ATTAAGTACTAAGGCACAAAGACATGTCATGCATCACAGAAAAGCAACTACTTATATTTC 2280 2281 AGAGCAAATTAGCAGATTAAATAGTGGTCTTAAAACTCCATATGTTAATGATTAGATGGT 2340 2341 TATATTACAATCATTTTTATATTTTTTTACATGATTAACATTCACTTATGGATTCATGATG 2400 2401 GCTGTATAAAGTGAATTTGAAATTTCAATGGTTTACTGTCATTGTGTTTAAATCTCAACG 2460 2461 TTCCATTATTTAATACTTGCAAAAACATTACTAAGTATACCAAAATAATTGACTCTATT 2520 2521 ATCTGAAATGAAGAATAAACTGATGCTATCTCAACAATAACTGTTACTTTTATTATATA 2580 2581 TTTGATAATGAATATTTCTGCATTTATTTACTTCTGTTTTGTAAATTGGGATTTTGTT 2640 2641 AATCAAATTTATTGTACTATGACTAAATGAAATTATTTCTTACATCTAATTTGTAGAAAC 2700 2701 AGTATAAGTTATATAAAGTGTTTTTCACATTTTTTTGAAAGAC 2743

FIG. 5D



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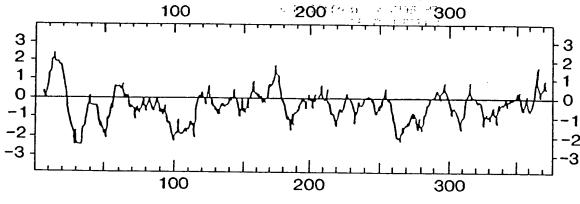


FIG. 6A

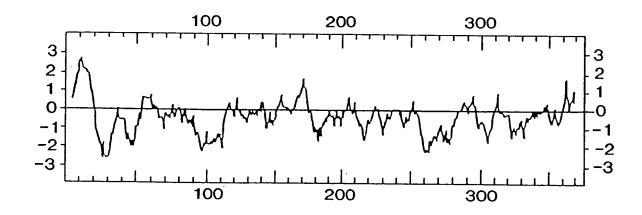


FIG. 6B



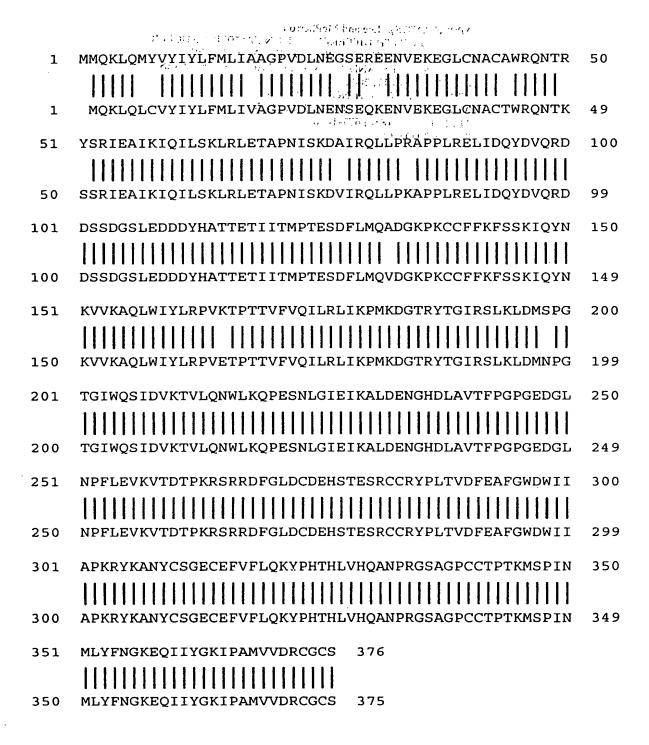
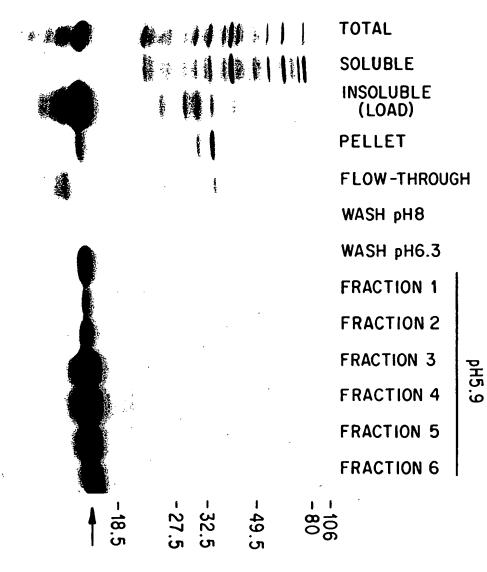


FIG. 7

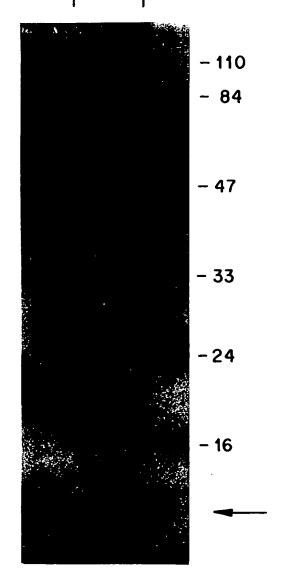
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FIG. 8





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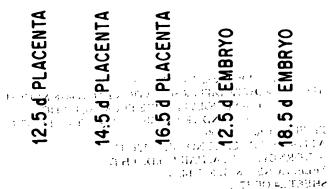
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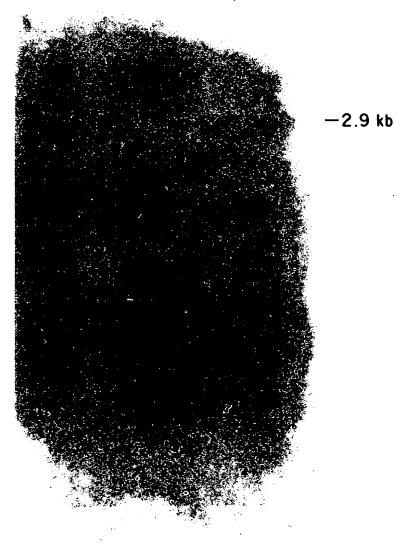


FIG. 10b



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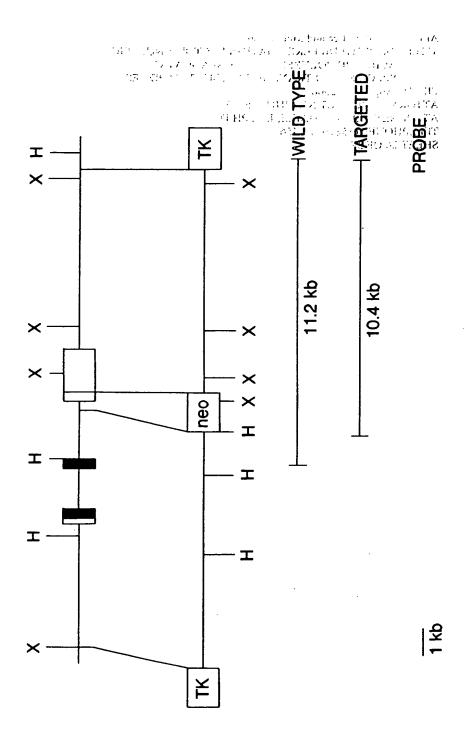


FIG. 12A



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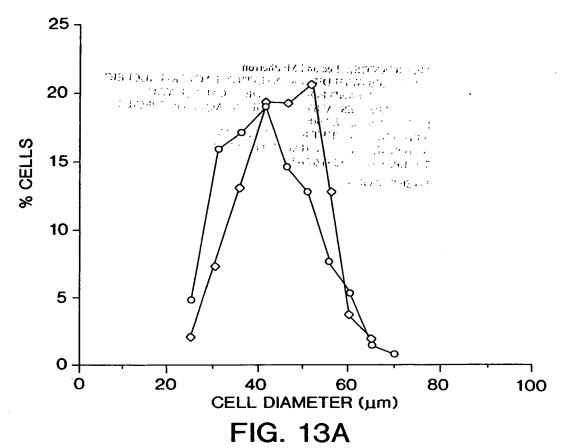
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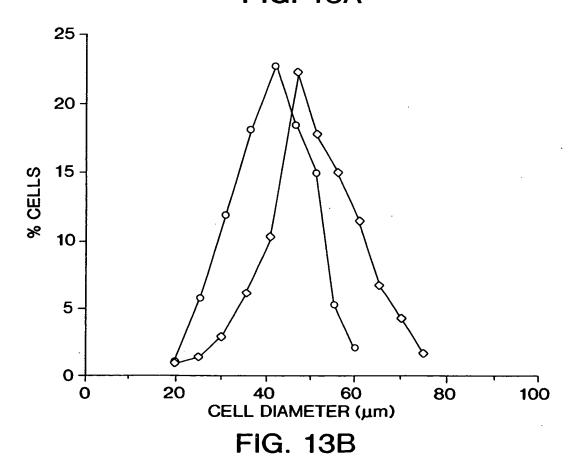
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### Cod INA [Strand]

. ACTECCECEAGTECEGGTGCTGCCGCTACCCCTCACAGTGGACTTTGAAGACTTTGGCTGGGACTGGGTGATCGCGCCCAAGCG × д Þ > 3 D S ര Гщ Ω (±1) [I4 Ω > H ы p, × æ Ö Ö S Д ß

ATACAAGGCCAACTATTGCTCCGGGGAGTGTGTACATGTACCTGCAGAAGTACCCCCACACACCCTGGTGCAAAGGCCAAG Z × 回 ပ ഠ ტ ß . ပ × z ø × 88

CCCCGGGGCAACGCTGGCTGCTGCTGCCCACCAAGATGTCCCCCATCAACATGTCCCCATGCTTCTACTTCAACCGCAAGGAGCAGATCA Н O.... ш æ Ľ × u × z മ ഗ Σ × H Д H O U д ტ ø Z G  $\alpha$ Д 171

AND PROBLEM Sun Tropic (1)

TCTACGGCAAGCTGCCCTCTATGGTCGTA ۸ ۸ Σ Ø Д П × ტ ⊁ 256

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## Sea Bass [Strand]

TOCCTGCTGCACCCGACCAAGATGTCGCCCATNAACATGCTCTACTTTAACCGAAAAGAGCAGATAATCTACGGCAAGATCCCT TECTECCECTACCCACTCACAGTGGACTTTGAAGACTTTGGGACTGGATTATTGCCCCCAAAGCGCTACAAGGCCCAACTATT MILLOUSE DEPOTATION CONTROL STATE OF THE PROPERTY OF THE PROPE G T B N P R Ы LVNKA O 团 **以** z Ħ ĮŢ, ۲ × H L ы  $\mathbf{z}$ Y X Q z ٠. Д MHL Ø X Z × Н 臼 գ

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TCCATGGTGGTG V V M

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## Sea. Bream INA [Strand]

TCTCAGAGTCCCGGTGCCGCTACCGCTCACGGTGGACTTCGAAGACTTTGGCTGGGACTGGATTATTGCCCCAAAGCGCTA M D W O r D гч ĸ

CAAGGCCAACTATTGCTCCGGGGAGTGTGAGTACATGCACTTGCAGAAGTACCGGCACCACCTGGTGAACAAAGCCAACCC H L V N K A H Ħ വ × × Q EYMHL ပ ы O Ŋ Ö × N N .86

AGAGGGTCCGCGGGCCCCTGCTGTACCCCCACCAAGATGTCGCCCATCAACATGCTCTACTTTAACCGAAAGGAGCAGATCATCT ĮΞι L K NNI ы ß T X Д ы O ပ ပ ر دی ഗ 171

256 ACGGCAAGATCCCGTCCATGGTGGTA Y G K I P S M V V FIG. 16

## Tautog DNA [Strand]

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X I I I O GAGGGACTGCAGGCCCCTGCTGCACCCCCACCAAGATGTCGCCCATCAACATGCTCTACTTTAACCGAAAGGAGCAGATCATCTA æ z Ľ × ы N н പ ഗ × E ρι E U ပ വ ഗ R G T A 171

CGGCAAGATCCCCTCCATGGTGGTG Σ ഗ ი გ 256

X. laevis T7 [Strand] Ħ ۲ I Ø ſτι ശ ပ M Ø Ø E r K Σ z വ Ø Σ × H ച ۲ ပ ტ æ ഗ ტ 召 Д Q A N 86

171 AACAAATCATATATGGAAAAATTCCAGCTATGGTGTA

EQIIYGKIPAMV

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FIG. 13

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humanMSTN Zebrafish Salmon Cod Sea Bass Sea Bream Tautog X. laevis	anMSTN cafish non Bass Bream cog	Sh sh sh
MS M	nMS afii on Bass og og	anMSTIN rafish non Bass Bream
ora ora ora ora ora ora ora ora ora ora	nan ora mo l l B	La Da Baran
humanMSTN Zebrafish Salmon Cod Sea Bass Sea Brean Tautog	humanMSTN Zebrafish Salmon Cod Sea Bass Sea Bream Tautog	humanMSTN Zebrafish Salmon Cod Sea Bass Sea Bream Tautog
I ARMONDER	X H W W O W B X	<b>甘 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 </b>

Decoration 'Decoration #1': Shade (with solid black) residues that match humanMSTN exactly.



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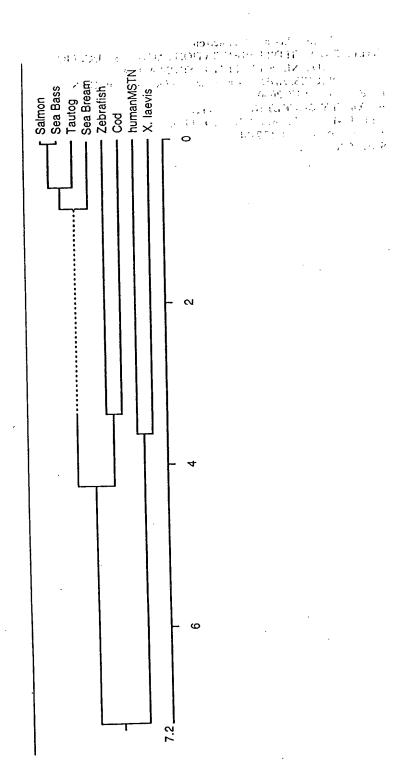
	Percent Similarity										
[		1	2	3	4	<sup>11</sup> 5	1 <b>6</b> .4.7	7	8		
	1		88.8	89.9	87.6	88.8	91.0	88.8	92.8	1	h
	2	11.2		95.5	93.3	94.4	94.4	94.4	84.1	2	Z
nce	3	10.1	4.5		93.3	98.9	98.9	98.9	85.5	3	S
Percent Divergence	4	12.4	6.7	6.7	6 A.	92.1	93.3	92.1	82.6	4	С
Ö	5	10.2	4.5	0.0	6.8		97.8	97.8	84.1	5	s
ent		9.0	5.6	1.1	6.7	1.1		97.8	87.0	6	s
erc	6	11.2	5.6	1.1	7.9	1.1	2.2		85.5	7	Т
С.	7		15.9	14.5	17.4	14.7	13.0	14.5		8	×
	8	7.2	2	3	4	5	6	7	8		
	l:	1 '	1								

humanMSTN Zebrafish Salmon Cod Sea Bass Sea Bream Tautog X. laevis

FIG. 20



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G. 21